that the spoil is jettisoned immediately after damage if—

- (1) The hull is designed so that—
- (i) The complete separation is effected within two minutes even if the main power source is lost or the actuating means is damaged; and
- (ii) The actuating means can be operated from the navigating bridge;
- (2) It is shown to the Commanding Officer, Marine Safety Center, either by calculations or by operational tests, that the hulls can separate sufficiently to allow the dredged material to dump without bridging; and
- (3) Asymmetrical jettisoning of the spoil is impossible.

#### **DESIGN**

### §174.335 Watertight doors.

- (a) Each hopper dredge must have sliding watertight doors (Class 3) approved under §170.270 of this chapter if the sill for the door is—
- (1) Installed below the bulkhead deck; and
- (2) Less than 24 inches above the final waterline as shown by the calculations required by §174.310 in each damage condition up to and including the maximum amount of assumed damage.
- (b) Each hopper dredge must have sliding watertight doors (Class 3) approved under §170.270 of this chapter, or quick acting hinged watertight doors (Class 1) approved under the same subpart if the sill of the watertight door is—
- (1) Installed below the bulkhead deck; and
- (2) Greater than 24 inches above the final waterline as shown by the calculations required by §174.310 in each damage condition up to and including the maximum amount of assumed damage.

[CGD 76-080, 54 FR 36977, Sept. 6, 1989, as amended by CGD 95-072, 60 FR 50468, Sept. 29, 1995]

### §174.340 Collision bulkhead.

Each hopper dredge must have a collision bulkhead that is located not less than 5 percent of the length abaft of the forward perpendicular.

### Subpart J—Special Rules Pertaining to Dry Cargo Ships

SOURCE: CGD 87-094, 58 FR 17320, Apr. 1, 1993, unless otherwise noted.

### §174.350 Specific applicability.

This subpart applies to each new ship of 500 gross tons or over, as calculated by the International Convention on Tonnage Measurement of Ships, 1969, designed primarily for the carriage of dry cargoes, including roll-on/roll-off ships and integrated tug and barges (ITBs) when operating as a combined unit.

#### §174.355 Definitions.

New ship means a ship:

- (1) For which the building contract is placed on or after February 1, 1992; or
- (2) In the absence of a building contract, the keel of which is laid or which is at a similar stage of construction on or after August 1, 1992; or
- (3) The delivery of which is on or after February 1, 1997; or
- (4) For which application for reflagging is made on or after February 1, 1997: or
- (5) Which has undergone a major conversion:
- (i) For which the contract is placed on or after February 1, 1992; or
- (ii) In the absence of a contract, the construction work of which is begun on or after August 1, 1992; or
- (iii) Which is completed on or after February 1, 1997.

### §174.360 Calculations.

Each ship to which this subpart applies, must meet the minimum standard of subdivision and damage stability required for that ship by the International Convention for the Safety of Life at Sea, 1974, as amended, chapter II-1, part B-1. Compliance with the applicable requirements must be demonstrated by calculations and reflected in information on loading restrictions, such as a maximum height of the center of gravity (KG) or minimum metacentric height (GM) curve that is part of the stability information required by §170.110 of this chapter and Regulation 25-8 of The International Convention for the Safety of Life at

## 46 CFR Ch. I (10-1-98 Edition)

### § 174.360

Sea, 1974, as amended, chapter II–1, part B–1.

# **INDEX**

### SUBCHAPTER S—SUBDIVISION AND STABILITY

 $\hbox{\it Editorial Note: This listing is provided for informational purposes only. It is compiled and kept up-to-date by the Coast Guard, Department of Transportation.}$ 

	A Part, Subpart, or Section
	A Fait, Subpart, of Section
Addresses:	
Material incorporated by reference.	
Aft peak bulkhead, passenger vessels.	
Alterations	
Auxiliary sailing vessels:	
Defined	
Large passenger vessels	
Small passenger vessels	
Weather criterion for	
	В
Ballast, fixed. (See Fixed ballast.)	
Barges:	
Deck cargo	Part 174, Subpart B
Definitions	
Tank (See Tank barges.)	
Weather criterion for	
Bulk cargo vessels, special requirement	nts for Part 172
Buoyancy:	
Air tanks	171.070(d), 171.095(c)
Standards of flooding	
	C
	C
Calculations:	
Samples of, in stability booklet	
Submittal of	170.090
Stability text results	
Catamarans	
Center of gravity:	
Determination of	Part 170, Subpart F
During simplified stability test	
Estimated position on tank vessels.	
In stability booklet	
Virtual increase of Collision bulkhead:	Part 170, Subpart I
Comston bulknead:	

Oceanographic research vessels
Passenger vessels
Consumable liquids:
Effect on stability calculations
In lightweight
Cranes:
Data required
Requirements for vessels with
Cross curves, required
Cross-flooding:
Instructions to the Master
Liquefied gas carriers, system standards
Passenger vessels, system standards
Subchapter O tankships, system standards
D
Damage stability:
Liquefied gas carriers, local damage
Liquefied gas carriers, major damage
MODU's, standards for
Nautical school ships, standards for
Nuclear powered vessels, standards for
Oceanographic research vessels, standards for
Oil tankers, standards for
OTEC facilities, standards for
Passenger vessels:
Cockpits
Types I and II
Types III
Well decks
Subchapter D tank barges carrying cargoes other than oil
Subchapter O barges, standards for
Subchapter O tankships, standards for
Dangerous cargoes
Dead covers:
Oceanographic research vessels, required
Passenger vessels, required
Deadweight surveys
Deck cargo barges. (See Barges.)
Definitions:
Concerning a vessel 170.055
General terms 170.050
Pertaining to lifting
Pertaining to liquefied gas carriers
Pertaining to MODU's
Pertaining to passenger vessels
Pertaining to Subchapter O tankships
Discontinuous bulkhead deck, passenger vessels
Discontinuous weather deck
Double bottoms, passenger vessels:  Manhalos in 171 109
Manholes in
Permeability of
Watertight floors in
Wells in
Downflooding:
Angle
9

Deck cargo barges	174.015
Defined (except MODU's)	170.055(e)
Lifting vessels	173.020(b)
Liquefied gas carriers	172.195
Mobile offshore drilling units (MODU's):	
Considered	
Defined	174.035(b)
Oil tankers	170.055(f)
Sailing passenger vessels	171.055
Subchapter O barges	172.090
Subcharter O tankships	
Tugboats and towboats	174.145
Vessels of unusual proportion and form	
Vessels which tow	173.095
Draft marks	
Drainage of weather decks	Part 171, Subpart H
Deck cargo barges	Part 174, Subpart B
	•
${f E}$	
Equalization. (See Cross-flooding.)	
Equivalent plane bulkhead, passenger vessels:	
Defined	171 010(a)
Required:	171.010(C)
Type I subdivision	171 067(f)
Type II subdivision	171.007(1)
Equivalents	170.010
Estimated lightweight vertical center of gravity	170.010
Existing vessels	170.200
Existing vessels	
F	
<del>-</del>	
Ferry:	
Ferry: Collision bulkheads	171.040(d), 171.060(d)
Ferry: Collision bulkheadsDefined	171.040(d), 171.060(d) 171.010(d)
Ferry: Collision bulkheads Defined Intact stability during loading	171.040(d), 171.060(d) 171.010(d) 171.030(g)
Ferry: Collision bulkheads Defined Intact stability during loading Fixed ballast	171.040(d), 171.060(d) 171.010(d) 171.030(g)
Ferry: Collision bulkheads Defined Intact stability during loading Fixed ballast Floodable length:	171.040(d), 171.060(d) 
Ferry: Collision bulkheads Defined Intact stability during loading Fixed ballast Floodable length: Curves required	171.040(d), 171.060(d) 
Ferry: Collision bulkheads Defined Intact stability during loading Fixed ballast Floodable length: Curves required Defined	171.040(d), 171.060(d) 
Ferry: Collision bulkheads Defined Intact stability during loading Fixed ballast	171.040(d), 171.060(d) 171.010(d) 171.030(g) , 170.110(d) (14), 170.235 170.090(b) (4) 171.010(e)
Ferry: Collision bulkheads Defined Intact stability during loading Fixed ballast	171.040(d), 171.060(d) 171.010(d) 171.030(g) , 170.110(d) (14), 170.235 170.090(b) (4) 171.010(e)
Ferry: Collision bulkheads Defined Intact stability during loading Fixed ballast	171.040(d), 171.060(d) 171.010(d) 171.030(g) , 170.110(d) (14), 170.235 170.090(b) (4) 171.010(e) 171.043(a) 171.065
Ferry: Collision bulkheads Defined Intact stability during loading Fixed ballast Floodable length: Curves required Defined Passenger vessels: Simplified—small passenger vessels Standards, Type I Standards, Type II	171.040(d), 171.060(d) 171.010(d) 171.030(g) , 170.110(d) (14), 170.235 170.090(b) (4) 171.010(e) 171.043(a) 171.065 171.070
Ferry: Collision bulkheads Defined Intact stability during loading Fixed ballast Floodable length: Curves required Defined Passenger vessels: Simplified—small passenger vessels Standards, Type I Standards, Type II Standards, Type III	171.040(d), 171.060(d) 171.010(d) 171.030(g) , 170.110(d) (14), 170.235 170.090(b) (4) 171.010(e) 171.043(a) 171.065 171.070
Ferry: Collision bulkheads Defined Intact stability during loading. Fixed ballast Floodable length: Curves required Defined Passenger vessels: Simplified—small passenger vessels Standards, Type I Standards, Type II Standards, Type III Floors, watertight—in double bottoms	171.040(d), 171.060(d) 
Ferry: Collision bulkheads Defined Intact stability during loading Fixed ballast Floodable length: Curves required Defined Passenger vessels: Simplified—small passenger vessels Standards, Type I Standards, Type II Standards, Type III Floors, watertight—in double bottoms Foam flotation  170.24	171.040(d), 171.060(d) 
Ferry: Collision bulkheads Defined Intact stability during loading Fixed ballast Floodable length: Curves required Defined Passenger vessels: Simplified—small passenger vessels Standards, Type I Standards, Type II Standards, Type III Floors, watertight—in double bottoms Foam flotation 170.24	171.040(d), 171.060(d) 
Ferry: Collision bulkheads Defined Intact stability during loading Fixed ballast Curves begin be	171.040(d), 171.060(d) 171.010(d) 171.030(g) , 170.110(d) (14), 170.235 170.090(b) (4) 171.010(e) 171.065 171.070 171.075 171.109 5, 171.070(d), 171.095(c) 170.001(a) (2)
Ferry: Collision bulkheads Defined Intact stability during loading. Fixed ballast	171.040(d), 171.060(d)171.010(d)171.030(g) , 170.110(d) (14), 170.235170.090(b) (4)171.010(e)171.065171.075171.109 5, 171.070(d), 171.095(c)170.001(a) (2) 0.170(a), 171.030(e)-(h)
Ferry: Collision bulkheads Defined Intact stability during loading. Fixed ballast	171.040(d), 171.060(d)171.010(d)171.030(g) , 170.110(d) (14), 170.235170.090(b) (4)171.010(e)171.065171.075171.109 5, 171.070(d), 171.095(c)170.001(a) (2) 0.170(a), 171.030(e)-(h)
Ferry: Collision bulkheads Defined Intact stability during loading Fixed ballast Floodable length: Curves required Defined Passenger vessels: Simplified—small passenger vessels Standards, Type I Standards, Type II Standards, Type III Floors, watertight—in double bottoms Foam flotation Freeboard: Allowable heeling limits, general Freeing ports:	171.040(d), 171.060(d) 
Ferry: Collision bulkheads Defined Intact stability during loading Fixed ballast Floodable length: Curves required Defined Passenger vessels: Simplified—small passenger vessels Standards, Type I Standards, Type II Standards, Type III Floors, watertight—in double bottoms Foam flotation Freeboard: Allowable heeling limits, general Freeing ports: Minimum Area	171.040(d), 171.060(d) 
Ferry: Collision bulkheads Defined Intact stability during loading Fixed ballast Floodable length: Curves required Defined Passenger vessels: Simplified—small passenger vessels Standards, Type I Standards, Type II Standards, Type III Floors, watertight—in double bottoms Foam flotation Foeign vessels Freeboard: Allowable heeling limits, general Passenger vessels, effective Freeing ports: Minimum Area Required	171.040(d), 171.060(d) 
Ferry: Collision bulkheads Defined Intact stability during loading Fixed ballast Floodable length: Curves required Defined Passenger vessels: Simplified—small passenger vessels Standards, Type I Standards, Type II Standards, Type III Floors, watertight—in double bottoms Foam flotation 170.24 Foreign vessels Freeboard: Allowable heeling limits, general Passenger vessels, effective Freeing ports: Minimum Area Required Free surface:	171.040(d), 171.060(d) 
Ferry: Collision bulkheads Defined Intact stability during loading Fixed ballast Floodable length: Curves required Defined Passenger vessels: Simplified—small passenger vessels Standards, Type I Standards, Type II Standards, Type III Floors, watertight—in double bottoms Foam flotation Foam flotation 170.24 Foreign vessels Freeboard: Allowable heeling limits, general Allowable heeling limits, general Freeing ports: Minimum Area Required Free surface: Instructions concerning:	171.040(d), 171.060(d)
Ferry: Collision bulkheads Defined Intact stability during loading Fixed ballast Floodable length: Curves required. Defined. Passenger vessels: Simplified—small passenger vessels Standards, Type I Standards, Type II Standards, Type III Floors, watertight—in double bottoms Foam flotation Foreign vessels Freeboard: Allowable heeling limits, general Allowable heeling limits, general Freeing ports: Minimum Area Required Free surface: Instructions concerning: Counterballasting	171.040(d), 171.060(d)
Ferry: Collision bulkheads Defined Intact stability during loading Fixed ballast Floodable length: Curves required Defined Passenger vessels: Simplified—small passenger vessels Standards, Type I Standards, Type II Standards, Type III Floors, watertight—in double bottoms Foam flotation Foam flotation 170.24 Foreign vessels Freeboard: Allowable heeling limits, general Allowable heeling limits, general Freeing ports: Minimum Area Required Free surface: Instructions concerning:	171.040(d), 171.060(d)

G   Grain in bulk	Subchapter O tank barges, assumption Treatment of, general	172.087(b) Part 170, Subpart I
## Hazardous liquids	G	
Hazardous liquids	Grain in bulk "Grandfathering"	170.098, Part 172, Subpart B170.001(b)
Hopper barges:   Subchapter D cargoes other than oil   172.050	Н	
Subchapter D cargoes other than oil   172.050   172.100   172.110   172.100   172.110   172.100   172.110   172.100   172.110   172.100   172.110   170.075(a)(3), 170.100(d)(4)	Hazardous liquids	Part 172, Subparts E, F
Inclining experiments. (See Stability test.)	Subchapter D cargoes other than oil	
Inclining experiments. (See Stability test.)   Incorporation by reference: General   170.015   IMO Resolution A.265(VIII)   170.135, 171.035, 171.075, 171.082   MIL-P-21929B   170.245(b) (9)   Intact stability:   Deck cargo barges   174.015, 174.020   Large passenger vessels:   Catamarans   171.057   Passenger heel   171.050   Sailing   171.055   Sailing   171.055   Lifting vessels   173.020, 173.025   Liquefied gas carriers   173.020, 173.025   Liquefied gas carriers   174.045   Passenger vessels:   Cockpits   174.045   Passenger vessels:   Cockpits   171.145(e)(1)   Well decks   171.150(b)(2)   Small passenger vessels:   General   171.030   Sailing   171.035   Subchapter O barges   172.090, 172.095   Tugboats and Towboats   174.045   Vessels of unusual proportion and form   170.170(d), 170.173   Weather Criterion   170.170(d), 170.173   Weather Criterion   170.170(d), 170.173   Weather Criterion   170.170(d), 170.170   International voyage: Passenger vessels:   Aft peak bulkhead required   171.090(a)   Special considerations   171.090(a)   Shaft tunnels   171.090(a)   Special considerations   171.095(a)   Shaft tunnels   171.095(a)   Shaft tunnels   171.095(a)   Subdivision requirements   170.265(d)(1)   Watertight door requirements   170.265(d)(1)   Watertight door requirements   170.265(d)(1)   Large Passenger vessels   Part 171, Subpart C   Lifting: Data submittal requirements   170.095	Hydrostatic curves (curves of form), required	170.075(a)(3), 170.100(d)(4)
Incorporation by reference:   General	I	
General       170.015         IMO Resolution A.265(VIII)       170.135, 171.075, 171.082         MIL-P-21929B.       170.245(b) (9)         Intact stability:       170.245(b) (9)         Deck cargo barges       174.015, 174.020         Large passenger vessels:       171.057         Passenger heel       171.057         Passenger heel       171.055         Sailing       171.055         Lifting vessels       173.020, 173.025         Liquefied gas carriers       172.165         Mobile offshore drilling units (MODU's)       174.045         Passenger vessels:       171.145(e) (1)         Cockpits       171.145(e) (1)         Well decks       171.150(b) (2)         Small passenger vessels:       171.1030         General       171.1030         Sailing       171.030         Subchapter O barges       172.090         Tugboats and Towboats       174.045         Vessels of unusual proportion and form       170.170(d), 170.170         International voyage:       170.170(d), 170.170         Passenger vessels:       171.090(a)         Aft peak bulkhead required       171.090(a)         Defined       171.090(a)         Special consideratio	Incorporation by reference:	
MIL-P-21929B       170.245(b)(9)         Intact stability:       Deck cargo barges       174.015, 174.020         Large passenger vessels:       171.057         Catamarans       171.057         Passenger heel       171.055         Sailing       171.055         Lifting vessels       173.020, 173.025         Liquefied gas carriers       172.165         Mobile offshore drilling units (MODU's)       174.045         Passenger vessels:       172.165         Cockpits       174.045         Passenger vessels:       171.145(e) (1)         General       171.1030         Sailing       171.030         Subchapter O barges       172.090, 172.095         Tugboats and Towboats       174.145         Vessels of unusual proportion and form       170.170(d), 170.173         Weather Criterion       170.170(d), 170.170         International voyage:       Passenger vessels:         Aft peak bulkhead required       .171.090(a)         Defined       .171.105(a)         Shaft tunnels       .171.105(a)         Shecial considerations       .171.06         Special considerations       .171.065         Shadivision requirements       .170.265(d)(1) <tr< td=""><td>General</td><td></td></tr<>	General	
Deck cargo barges       174.015, 174.020         Large passenger vessels:       171.057         Catamarans       171.050         Sailing       171.055         Lifting vessels       173.020, 173.025         Liquefied gas carriers       172.165         Mobile offshore drilling units (MODU's)       174.045         Passenger vessels:       171.145(e)(1)         Cockpits       171.145(e)(1)         Well decks       171.150(b)(2)         Small passenger vessels:       171.030         General       171.030         Sailing       171.030         Subchapter O barges       172.090, 172.095         Tugboats and Towboats       174.145         Vessels of unusual proportion and form       170.170(d), 170.173         Weather Criterion       170.170(d), 170.173         International voyage:       171.060, 170.170         Passenger vessels:       171.090(a)         Aft peak bulkhead required       171.090(a)         Defined       171.106(a)         Shaft tunnels       171.090(a)         Special considerations       171.068         Standards       171.045         Subdivision requirements       170.265(d)(1)         Watertight door requiremen	MIL-P-21929B	
Large passenger vessels:       171.057         Catamarans       171.050         Sailing       171.055         Lifting vessels       173.020, 173.025         Liquefied gas carriers       172.165         Mobile offshore drilling units (MODU's)       174.045         Passenger vessels:       171.145(e) (1)         Cockpits       171.150(b) (2)         Small passenger vessels:       171.030         General       171.030         Sailing       171.035         Subchapter O barges       172.090, 172.095         Tugboats and Towboats       174.145         Vessels of unusual proportion and form       170.170(d), 170.173         Weather Criterion       170.170(d), 170.170         International voyage:       182.990, 170.170         Passenger vessels:       171.090(a)         Aft peak bulkhead required       171.090(a)         Defined       171.105(a)         Shaft tunnels       171.105(a)         Shaft tunnels       171.090(a)         Special considerations       171.090(a)         Special considerations       171.090(a)         Special considerations       171.090(a)         Subdivision requirements       170.265(d) (1)         Water	Intact stability:  Deck cargo barges	174.015, 174.020
Passenger heel       171.050         Sailing       171.050         Lifting vessels       173.020, 173.025         Liquefied gas carriers       172.165         Mobile offshore drilling units (MODU's)       174.045         Passenger vessels:       171.145(e)(1)         Cockpits       171.150(b)(2)         Small passenger vessels:       171.150(b)(2)         General       171.030         Sailing       171.035         Subchapter O barges       172.090, 172.095         Tugboats and Towboats       174.145         Vessels of unusual proportion and form       170.170(d), 170.170         International voyage:       170.160, 170.170         Passenger vessels:       Aft peak bulkhead required       171.090(a)         Defined       171.010(g), (1)         Double bottoms required for       171.101(g), (1)         Double bottoms required for       171.100(a)         Special considerations       171.06         Standards       171.065         Studivision requirements       170.265(d)(1)         Watertight door requirements       170.265(d)(1)         Watertight door requirements       170.265(d)(1)         L       Large Passenger vessels       Part 171, Subpart C	Large passenger vessels:	
Sailing       .171.055         Lifting vessels       .173.020, 173.025         Liquefied gas carriers       .172.165         Mobile offshore drilling units (MODU's)       .174.045         Passenger vessels:       .171.145(e)(1)         Cockpits       .171.150(b)(2)         Small passenger vessels:       .171.150(b)(2)         General       .171.030         Sailing       .171.035         Subchapter O barges       .172.090, 172.095         Tugboats and Towboats       .174.145         Vessels of unusual proportion and form       .170.170(d), 170.173         Weather Criterion       .170.170(d), 170.173         Weather Criterion       .170.160, 170.170         International voyage:		
Lifting vessels.       173.020, 173.025         Liquefied gas carriers       172.165         Mobile offshore drilling units (MODU's)       174.045         Passenger vessels:       171.145(e)(1)         Cockpits       171.150(b)(2)         Small passenger vessels:       171.150(b)(2)         General       171.030         Sailing       171.035         Subchapter O barges       172.090, 172.095         Tugboats and Towboats       174.145         Vessels of unusual proportion and form       170.170(d), 170.170         International voyage:       170.160, 170.170         Passenger vessels:       170.160, 170.170         Aft peak bulkhead required       171.090(a)         Defined       171.1010(g), (1)         Double bottoms required for       171.105(a)         Shaft tunnels       171.090(a)         Special considerations       171.068         Standards       171.068         Standards       171.068         Standards       170.265(d)(1)         Watertight door requirements       170.265(d)(1)         Watertight door requirements       170.265(d)(1)         Uatage Passenger vessels       Part 171, Subpart C         Lifting:       Data submittal requiremen		
Liquefied gas carriers       172.165         Mobile offshore drilling units (MODU's)       174.045         Passenger vessels:		
Passenger vessels:       171.145(e) (1)         Cockpits       171.150(b) (2)         Small passenger vessels:       171.030         General       171.035         Subchapter O barges       172.090, 172.095         Tugboats and Towboats       174.145         Vessels of unusual proportion and form       170.170(d), 170.173         Weather Criterion       170.160, 170.170         International voyage:       Passenger vessels:         Aft peak bulkhead required       171.090(a)         Defined       171.010(g), (1)         Double bottoms required for       171.105(a)         Shaft tunnels       171.100(a)         Special considerations       171.068         Standards       171.045         Subdivision requirements       170.265(d)(1)         Watertight door requirements       170.265(d)(1)         Watertight door requirements       170.265(d)(1)         L       Large Passenger vessels       Part 171, Subpart C         Lifting:       Data submittal requirements       170.095	Lifting vessels	
Passenger vessels:       171.145(e) (1)         Cockpits       171.150(b) (2)         Small passenger vessels:       171.030         General       171.035         Subchapter O barges       172.090, 172.095         Tugboats and Towboats       174.145         Vessels of unusual proportion and form       170.170(d), 170.173         Weather Criterion       170.160, 170.170         International voyage:       Passenger vessels:         Aft peak bulkhead required       171.090(a)         Defined       171.010(g), (1)         Double bottoms required for       171.105(a)         Shaft tunnels       171.100(a)         Special considerations       171.068         Standards       171.045         Subdivision requirements       170.265(d)(1)         Watertight door requirements       170.265(d)(1)         Watertight door requirements       170.265(d)(1)         L       Large Passenger vessels       Part 171, Subpart C         Lifting:       Data submittal requirements       170.095	Liquefied gas carriers	
Cockpits       171.145(e)(1)         Well decks       171.150(b)(2)         Small passenger vessels:       171.030         General       171.035         Sailing       171.035         Subchapter O barges       172.090, 172.095         Tugboats and Towboats       174.145         Vessels of unusual proportion and form       170.170(d), 170.173         Weather Criterion       170.160, 170.170         International voyage:       Passenger vessels:         Aft peak bulkhead required       171.090(a)         Defined       171.010(g), (1)         Double bottoms required for       171.105(a)         Shaft tunnels       171.100(a)         Special considerations       171.068         Standards       171.068         Standards       171.068         Studivision requirements       170.265(d)(1)         Watertight door requirements       170.265(d)(1)         Watertight door requirements       170.265(d)(1)         L       Large Passenger vessels       Part 171, Subpart C         Lifting:       Data submittal requirements       170.095	Mobile offshore drilling units (MODU's)	174.045
Well decks       171.150(b)(2)         Small passenger vessels:       171.030         General       171.035         Sailing       171.035         Subchapter O barges       172.090, 172.095         Tugboats and Towboats       174.145         Vessels of unusual proportion and form       170.170(d), 170.173         Weather Criterion       170.160, 170.170         International voyage:       Passenger vessels:         Aft peak bulkhead required       171.090(a)         Defined       171.105(a)         Shaft tunnels       171.105(a)         Shaft tunnels       171.100(a)         Special considerations       171.068         Standards       171.045         Subdivision requirements       170.265(d)(1)         Watertight door requirements       170.265(d)(1)         Watertight door requirements       170.265(d)(1)         L       Large Passenger vessels       Part 171, Subpart C         Lifting:       Data submittal requirements       170.095	Passenger vessels:	
Small passenger vessels:       171.030         General       171.035         Sailing       171.035         Subchapter O barges       172.090, 172.095         Tugboats and Towboats       174.145         Vessels of unusual proportion and form       170.170(d), 170.173         Weather Criterion       170.160, 170.170         International voyage:       170.160, 170.170         Passenger vessels:       171.090(a)         Aft peak bulkhead required       171.010(g), (1)         Double bottoms required for       171.105(a)         Shaft tunnels       171.100(a)         Special considerations       171.068         Standards       171.045         Subdivision requirements       170.265(d)(1)         Watertight door requirements       170.265(d)(1)         L       L         Large Passenger vessels       Part 171, Subpart C         Lifting:       Data submittal requirements       170.095		
General       171.030         Sailing       171.035         Subchapter O barges       172.090, 172.095         Tugboats and Towboats       174.145         Vessels of unusual proportion and form       170.170(d), 170.173         Weather Criterion       170.160, 170.170         International voyage:       170.160, 170.170         Passenger vessels:       171.090(a)         Aft peak bulkhead required       171.090(a)         Defined       171.010(g), (1)         Double bottoms required for       171.105(a)         Shaft tunnels       171.100(a)         Special considerations       171.068         Standards       171.045         Subdivision requirements       170.265(d)(1)         Watertight door requirements       170.265(d)(1)         Watertight door requirements       Part 171, Subpart C         Lifting:       Data submittal requirements       170.095		171.150(b)(2)
Sailing       171.035         Subchapter O barges       172.090, 172.095         Tugboats and Towboats       174.145         Vessels of unusual proportion and form       170.170(d), 170.173         Weather Criterion       170.160, 170.170         International voyage:       Passenger vessels:         Aft peak bulkhead required       171.090(a)         Defined       171.010(g), (1)         Double bottoms required for       171.105(a)         Shaft tunnels       171.100(a)         Special considerations       171.068         Standards       171.045         Subdivision requirements       170.265(d)(1)         Watertight door requirements       170.265(d)(1)         Watertight door requirements       Part 171, Subpart C         Lifting:       Data submittal requirements       170.095	Small passenger vessels:	
Subchapter O barges       172.090, 172.095         Tugboats and Towboats       174.145         Vessels of unusual proportion and form       170.170(d), 170.173         Weather Criterion       170.160, 170.170         International voyage:       170.160, 170.170         Passenger vessels:       171.090(a)         Aft peak bulkhead required       171.010(g), (1)         Double bottoms required for       171.105(a)         Shaft tunnels       171.100(a)         Special considerations       171.068         Standards       171.045         Subdivision requirements       170.265(d)(1)         Watertight door requirements       170.265(d)(1)         L       L         Large Passenger vessels       Part 171, Subpart C         Lifting:       Data submittal requirements       170.095		
Tugboats and Towboats       174.145         Vessels of unusual proportion and form       170.170(d), 170.173         Weather Criterion       170.160, 170.170         International voyage:       170.160, 170.170         Passenger vessels:       171.090(a)         Aft peak bulkhead required       171.010(g), (1)         Double bottoms required for       171.105(a)         Shaft tunnels       171.100(a)         Special considerations       171.068         Standards       171.045         Subdivision requirements       170.265(d)(1)         Watertight door requirements       170.265(d)(1)         L       L         Large Passenger vessels       Part 171, Subpart C         Lifting:       Data submittal requirements       170.095	Sailing	171.035
Vessels of unusual proportion and form       170.170(d), 170.173         Weather Criterion       170.160, 170.170         International voyage:       170.160, 170.170         Passenger vessels:       171.090(a)         Aft peak bulkhead required       171.010(g), (1)         Double bottoms required for       171.105(a)         Shaft tunnels       171.100(a)         Special considerations       171.068         Standards       171.045         Subdivision requirements       170.265(d)(1)         Watertight door requirements       170.265(d)(1)         L         Large Passenger vessels       Part 171, Subpart C         Lifting:       Data submittal requirements       170.095	Subchapter O barges	
Weather Criterion       170.160, 170.170         International voyage:       Passenger vessels:         Aft peak bulkhead required       171.090(a)         Defined       171.010(g), (1)         Double bottoms required for       171.105(a)         Shaft tunnels       171.100(a)         Special considerations       171.068         Standards       171.045         Subdivision requirements       170.265(d)(1)         Watertight door requirements       170.265(d)(1)         L         Large Passenger vessels       Part 171, Subpart C         Lifting:       Data submittal requirements       170.095	Tugboats and Towboats	
International voyage:   Passenger vessels:   Aft peak bulkhead required		
Passenger vessels:       Aft peak bulkhead required       171.090(a)         Defined       171.010(g), (1)         Double bottoms required for       171.105(a)         Shaft tunnels       171.100(a)         Special considerations       171.068         Standards       171.045         Subdivision requirements       170.265(d) (1)         Watertight door requirements       170.265(d) (1)         L         Large Passenger vessels       Part 171, Subpart C         Lifting:       Data submittal requirements       170.095		
Aft peak bulkhead required       171.090(a)         Defined       171.010(g), (1)         Double bottoms required for       171.105(a)         Shaft tunnels       171.100(a)         Special considerations       171.068         Standards       171.045         Subdivision requirements       170.265(d)(1)         Watertight door requirements       170.265(d)(1)         L         Large Passenger vessels       Part 171, Subpart C         Lifting:       Data submittal requirements       170.095		
Defined       171.010(g), (1)         Double bottoms required for       171.105(a)         Shaft tunnels       171.100(a)         Special considerations       171.068         Standards       171.045         Subdivision requirements       170.265(d) (1)         Watertight door requirements       170.265(d) (1)         L         Large Passenger vessels       Part 171, Subpart C         Lifting:       Data submittal requirements       170.095	Passenger vessels:	
Double bottoms required for   171.105(a)	Aft peak bulkhead required	171.090(a)
Shaft tunnels       171.100(a)         Special considerations       171.068         Standards       171.045         Subdivision requirements       170.265(d)(1)         Watertight door requirements       170.265(d)(1)         L       L         Large Passenger vessels       Part 171, Subpart C         Lifting:       Data submittal requirements       170.095	Defined	171.010(g), (1)
Special considerations		
Standards		
Subdivision requirements		
Watertight door requirements 170.265(d)(1)  L Large Passenger vessels Part 171, Subpart C Lifting: 170.095		
L Large Passenger vessels		
Large Passenger vessels	Watertight door requirements	170.265(d)(1)
Lifting: Data submittal requirements	L	
Lifting: Data submittal requirements	Large Passenger vessels	Part 171, Subpart C
Data submittal requirements	Lifting:	
Operating information requirements	Data submittal requirements	170.095
	Operating information requirements	

Standards	Part 173, Subpart B
I ightweight:	•
Defined	170.055(i)
Information required, stability booklet	
	Part 170, Subpart F
Lines drawing required	
Liquefied flammable gas, barges Liquefied gas carriers	Part 172, Subpart C
LNG Carriers. (See Liquefied gas carriers.	
Load line:	)
	170.110(e), 170.120(b)
Length, defined	
Locks required:	
Cargo space watertight doors	
Port lights below the bulkhead deck	
M	ī
<del>-</del> "	_
Machinery space bulkhead, passenger ves: Main transverse watertight bulkhead	sels
	170.055(J)
Manholes, passenger vessels:	
Margin line:	
Passenger vessels:	
Air tankage or internal buoyancy	171.070(d) (2)
Dead covers required on port lights, b	elow171.117(a)
Location of	
Location of openings	
Stepped bulkheads	
Submergence of	171.017, 171.080(d)(3), 171.100(b)
Volume below	Tables 171.065(a), 171.066, 171.068
Test head:	Part 171, Subpart G
	170.245(b)(3)
Military specifications, MIL-P-21929B	
Mobile offshore drilling units (MODU's):	
Operating information required	
Stability information required	170.110(a)
Standards for	174.005(b), Part 174, Subpart C
N	
Nautical school ships, standards	
Nuclear powered vessel, standards	.171.001(b), 173.001(b), Part 173, Subpart C
Nuclear powered vesser, standards	.171.001(b), 174.003(c), 1 are 174, 5ubpare b
0	
Oceanographic vessel, standards	. 171.001(b), 173.001(c), Part 173, Subpart D
Oil in bulk, standards for vessels carrying	g172.005(c), Part 172, Subpart D
Openings:	•
Closed by weathertight covers:	
Liquefied gas carriers	
OII tankers	172.065(g)

Subchapter O tankships	172.150
Downflooding through:	
General1	70.055(e). (f)
Mobile offshore drilling units174.035(b	
Subchapter 0 barges	172 090(d)
Sailing passenger vessels	171 055(f)
Mobile offshore drilling units:	171.055(1)
Closures for	174 100
Watertight, closed automatically	174.100
Watertight, closed automatically	174.013(D)
Watertight, closed rapidly	174.045
Passenger vessels:	
Cockpit openings	
Collision bulkhead	
Effect on effective freeboard	
Special consideration, exposed weather decks	171.122(f)
Vessel sidesPart 171	, Subpart F
Watertight bulkheadsPart 171	, Subpart E
Watertight, closed automatically:	•
Mobile offshore drilling units	174.015(b)
Towing vessels	173.095(e)
Operating manual	
OTEC facilities	
77.000(c), 1 dre 171	, Bubpurt I
P	
<del>-</del>	
Passenger vessels, standards	Part 171
Penetrations. (See Openings.)	
Permeability	171.066
Permeability Calculation of, Type I subdivision	171.066
Permeability Calculation of, Type I subdivision	
Permeability Calculation of, Type I subdivision Damage stability: Liquefied gas carriers	172.185
Permeability Calculation of, Type I subdivision Damage stability: Liquefied gas carriers	172.185
Permeability Calculation of, Type I subdivision Damage stability: Liquefied gas carriers	172.185 174.090 172.065(f)
Permeability Calculation of, Type I subdivision Damage stability: Liquefied gas carriers Mobile offshore drilling units Oil tankers Passenger vessels	172.185 174.090 172.065(f) 171.080(c)
Permeability Calculation of, Type I subdivision Damage stability: Liquefied gas carriers Mobile offshore drilling units Oil tankers Passenger vessels Subchapter O tankships	172.185 174.090 172.065(f) 171.080(c) 172.140
Permeability Calculation of, Type I subdivision Damage stability: Liquefied gas carriers. Mobile offshore drilling units Oil tankers. Passenger vessels Subchapter O tankships Defined.	172.185 174.090 172.065(f) 171.080(c) 172.140
Permeability Calculation of, Type I subdivision Damage stability: Liquefied gas carriers. Mobile offshore drilling units Oil tankers. Passenger vessels Subchapter O tankships Defined. Uniform average permeability:	172.185 174.090 172.065(f) 171.080(c) 172.140 170.055(k)
Permeability Calculation of, Type I subdivision Damage stability: Liquefied gas carriers. Mobile offshore drilling units Oil tankers. Passenger vessels Subchapter 0 tankships Defined Uniform average permeability: Type I subdivision	172.185 174.090 172.065(f) 171.080(c) 170.055(k) 170.055(k)
Permeability Calculation of, Type I subdivision Damage stability: Liquefied gas carriers. Mobile offshore drilling units Oil tankers. Passenger vessels Subchapter O tankships Defined. Uniform average permeability: Type I subdivision. T	172.185 174.090 172.065(f) 171.080(c) 170.055(k) 170.055(k)
Permeability Calculation of, Type I subdivision Damage stability: Liquefied gas carriers. Mobile offshore drilling units Oil tankers. Passenger vessels Subchapter O tankships Defined Uniform average permeability: Type I subdivision Type II subdivision. Plans:	172.185 174.090 172.065(f) 171.080(c) 170.055(k) 170.055(k)
Permeability Calculation of, Type I subdivision Damage stability: Liquefied gas carriers. Mobile offshore drilling units Oil tankers. Passenger vessels Subchapter O tankships Defined. Uniform average permeability: Type I subdivision. Type II subdivision. Plans: Approval:	172.185 174.090 172.065(f) 171.080(c) 170.055(k) Table 171.068 171.072
Permeability Calculation of, Type I subdivision Damage stability: Liquefied gas carriers. Mobile offshore drilling units Oil tankers. Passenger vessels Subchapter O tankships Defined. Uniform average permeability: Type I subdivision. Type II subdivision. Plans: Approval: General. Part 170, Subpa	172.185 174.090 172.065(f) 171.080(c) 170.055(k) Table 171.068 171.072
Permeability Calculation of, Type I subdivision Damage stability: Liquefied gas carriers	172.185 174.090 172.065(f) 171.080(c) 170.055(k) 171.068 171.072 rt C, 170.180 170.075
Permeability Calculation of, Type I subdivision Damage stability: Liquefied gas carriers. Mobile offshore drilling units Oil tankers. Passenger vessels Subchapter 0 tankships Defined. Uniform average permeability: Type I subdivision. Type II subdivision. Plans: Approval: General	
Permeability Calculation of, Type I subdivision Damage stability: Liquefied gas carriers. Mobile offshore drilling units Oil tankers. Passenger vessels Subchapter 0 tankships Defined. Uniform average permeability: Type I subdivision. Type II subdivision. Plans: Approval: General	
Permeability Calculation of, Type I subdivision Damage stability: Liquefied gas carriers. Mobile offshore drilling units Oil tankers. Passenger vessels Subchapter O tankships Defined. Uniform average permeability: Type I subdivision. Type II subdivision. Plans: Approval: General	
Permeability Calculation of, Type I subdivision Damage stability: Liquefied gas carriers. Mobile offshore drilling units Oil tankers. Passenger vessels Subchapter 0 tankships Defined. Uniform average permeability: Type I subdivision. Type II subdivision. Plans: Approval: General	
Permeability Calculation of, Type I subdivision Damage stability: Liquefied gas carriers. Mobile offshore drilling units Oil tankers. Passenger vessels Subchapter O tankships Defined. Uniform average permeability: Type I subdivision. Type II subdivision. Plans: Approval: General	
Permeability Calculation of, Type I subdivision Damage stability: Liquefied gas carriers. Mobile offshore drilling units Oil tankers. Passenger vessels Subchapter O tankships Defined Uniform average permeability: Type I subdivision Type II subdivision Plans: Approval: General Specific Submittal of Port lights  R	
Permeability Calculation of, Type I subdivision Damage stability: Liquefied gas carriers. Mobile offshore drilling units Oil tankers. Passenger vessels Subchapter 0 tankships Defined. Uniform average permeability: Type I subdivision. Type II subdivision. Plans: Approval: General	
Permeability Calculation of, Type I subdivision Damage stability: Liquefied gas carriers. Mobile offshore drilling units Oil tankers. Passenger vessels Subchapter 0 tankships Defined. Uniform average permeability: Type I subdivision. Type II subdivision. Plans: Approval: General	
Permeability Calculation of, Type I subdivision Damage stability: Liquefied gas carriers. Mobile offshore drilling units Oil tankers. Passenger vessels Subchapter O tankships Defined. Uniform average permeability: Type I subdivision Type II subdivision Plans: Approval: General Part 170, Subpa Required Specific Submittal of 170 Port lights  R  Repairs: General 170.00 In way of fixed ballast	172.185174.090172.065(f)171.080(c)170.055(k)170.055(k)170.072170.072170.073170.093171.116
Permeability Calculation of, Type I subdivision Damage stability: Liquefied gas carriers. Mobile offshore drilling units Oil tankers. Passenger vessels Subchapter O tankships Defined Uniform average permeability: Type I subdivision Type II subdivision Plans: Approval: General Specific Submittal of Port lights  R  Repairs: General In way of fixed ballast Roll stabilization tanks	172.185174.090172.065(f)171.080(c)170.055(k)170.055(k)  fable 171.068170.072  rt C, 170.180170.075170.093 .100, 170.180171.116
Permeability Calculation of, Type I subdivision Damage stability: Liquefied gas carriers. Mobile offshore drilling units Oil tankers. Passenger vessels Subchapter O tankships Defined. Uniform average permeability: Type I subdivision Type II subdivision Plans: Approval: General Part 170, Subpa Required Specific Submittal of 170 Port lights  R  Repairs: General 170.00 In way of fixed ballast	172.185174.090172.065(f)171.080(c)170.055(k)170.055(k)  fable 171.068170.072  rt C, 170.180170.075170.093 .100, 170.180171.116
Permeability Calculation of, Type I subdivision Damage stability: Liquefied gas carriers. Mobile offshore drilling units Oil tankers. Passenger vessels Subchapter O tankships Defined Uniform average permeability: Type I subdivision Type II subdivision Plans: Approval: General Specific Submittal of Port lights  R  Repairs: General In way of fixed ballast Roll stabilization tanks	172.185174.090172.065(f)171.080(c)170.055(k)170.055(k)  fable 171.068170.072  rt C, 170.180170.075170.093 .100, 170.180171.116

S

Sailing vessels:

Defined	170.055(a), (1)
Intact stability standards:	
Catamarans	171.057
Large passenger vessels	171.055
Small passenger vessels	171.035
Weather criterion	
School ships. (See Nautical school ships.)	,
Shaft power, towline pull criterion	173 095
Shaft tunnels:	
On passenger vessels	171 100 171 106(c)
Watertight doors in	170.200(u)
Short international voyages, vessels on:	170 005(-1)(1)
Class 3 doors	1/0.265(d)(1)
Defined	
Double bottoms not required	171.105(h)(2)
Special considerations	171.068
Side ports, passenger vessels	
Sister vessel, stability test dispensed with	170.175(c)
Small passenger vessels, standards	Part 171
Stability booklets:	
Contents of	170.110
Lifting vessels, additional information	
Submission and approval required	170.080
Vessels with Type III subdivision, additional information	mation 170 135
Stability letters:	1,0,100
In lieu of stability booklet	170 110(a)
Required	170.110(e)
Stability test:	170.120
	170 175
General	170.173
Information required before test	170.085
Plans and information required at test	1/0.180
Preparations for test	
Simplified test, small passenger vessels	
Test procedure, modification of	
Stern tubes, passenger vessels	171.100
Subdivision:	
Nuclear powered vessels, requirements	
Oceanographic vessels	173.075, 173.085
Passenger vessels:	
Additional requirements	Part 171, Subpart D
Calculations:	•
Type I	171.065, 171.066, 171.067, 171.068
Type II	
Type III	171.075
Requirements, large passenger vessels	171.060
Requirements, small passenger vessels	171 040
Trunks, effect of	171 113(b)(3)
Subdivision load line (draft), passenger vessels:	1/1.110(b) (b)
Cockpits	171 145(a) (f)
Dead cover locations	171 117(b)
Deepest, defined Openings in hull, small passenger vessels	171.UIU(D)
Dort light locations	1/1.119(a)
Port light locations	
Transverse damage extent, relationship to	
Ventilators and side port locations	1/1.118(c)
Superstructures:	
Buoyancy of:	

Liquefied gas carriers
Subchapter O tankships
Integrity of, mobile offshore drilling units
Points of downflooding in:
General
Mobile offshore drilling units
Port lights in, oceanographic vessels
Windage area of, small passenger vessels
_
T
Tank barge:
Assumed center of gravity for
Carrying oil in bulk
Carrying Subchapter D cargoes other than oilPart 172, Subpart C
Carrying Subchapter O cargoesPart 172, Subpart E
Defined
Tank vessel:
Assumed center of gravity
Defined
Standards for
Tests:
Foam flotation material
Passenger vessels:
Operational, sailing vessels
Simplified stability test, small passenger vessels171.030, 171.035
Stability
Watertight doors
Towboats. (See Towing.) Towing standards for 172 001(d) Port 172 Subport F 174 005(d) Port 174 Subport
Towing, standards for 173.001(d), Part 173, Subpart E, 174.005(d), Part 174, Subpart
Towing, standards for173.001(d), Part 173, Subpart E, 174.005(d), Part 174, Subpart E
Towing, standards for 173.001(d), Part 173, Subpart E, 174.005(d), Part 174, Subpart E  Towline pull criterion
Towing, standards for 173.001(d), Part 173, Subpart E, 174.005(d), Part 174, Subpart E  Towline pull criterion
Towing, standards for 173.001(d), Part 173, Subpart E, 174.005(d), Part 174, Subpart E  Towline pull criterion
Towing, standards for 173.001(d), Part 173, Subpart E, 174.005(d), Part 174, Subpart E  Towline pull criterion
Towing, standards for 173.001(d), Part 173, Subpart E, 174.005(d), Part 174, Subpart E  Towline pull criterion
Towing, standards for 173.001(d), Part 173, Subpart E, 174.005(d), Part 174, Subpart E  Towline pull criterion
Towing, standards for 173.001(d), Part 173, Subpart E, 174.005(d), Part 174, Subpart E  Towline pull criterion
Towing, standards for 173.001(d), Part 173, Subpart E, 174.005(d), Part 174, Subpart E  Towline pull criterion
Towing, standards for 173.001(d), Part 173, Subpart E, 174.005(d), Part 174, Subpart E Towline pull criterion
Towing, standards for 173.001(d), Part 173, Subpart E, 174.005(d), Part 174, Subpart E Towline pull criterion
Towing, standards for 173.001(d), Part 173, Subpart E, 174.005(d), Part 174, Subpart E Towline pull criterion
Towing, standards for 173.001(d), Part 173, Subpart E, 174.005(d), Part 174, Subpart E Towline pull criterion
Towing, standards for 173.001(d), Part 173, Subpart E, 174.005(d), Part 174, Subpart E Towline pull criterion
Towing, standards for 173.001(d), Part 173, Subpart E, 174.005(d), Part 174, Subpart E Towline pull criterion
Towing, standards for 173.001(d), Part 173, Subpart E, 174.005(d), Part 174, Subpart E Towline pull criterion
Towing, standards for 173.001(d), Part 173, Subpart E, 174.005(d), Part 174, Subpart E Towline pull criterion
Towing, standards for 173.001(d), Part 173, Subpart E, 174.005(d), Part 174, Subpart E Towline pull criterion
Towing, standards for 173.001(d), Part 173, Subpart E, 174.005(d), Part 174, Subpart E Towline pull criterion
Towing, standards for 173.001(d), Part 173, Subpart E, 174.005(d), Part 174, Subpart E Towline pull criterion
Towing, standards for 173.001(d), Part 173, Subpart E, 174.005(d), Part 174, Subpart E Towline pull criterion
Towing, standards for 173.001(d), Part 173, Subpart E, 174.005(d), Part 174, Subpart E Towline pull criterion
Towing, standards for 173.001(d), Part 173, Subpart E, 174.005(d), Part 174, Subpart E Towline pull criterion

Subchapter O barges	
Subchapter O tankships	172.133(d), 172.150
Watertight doors. (See Watertight bulkheads.)	
Weather criterion	Part 170, Subpart E
Wind heeling moment:	-
Small passenger vessels	171.030(d), 171.035(g)
MODU's174.035(b)(2), 174.045, 174.	055, 174.065(a)(2), 174.100(d)(2)